If not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

INSTRUCTIONS

1. General – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials . . . " line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . . ," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

- 3. Contract Work Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.
- 4. Resales Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."
- 5. Produced and Consumed Forgings, foundries, and screw machine products Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

Line No.		Materials, parts, and supplies (A)	Census material code	material company Cost, including delivences (freight-in) (E) 574 Thou-				
1	Electric motors a	nd generators	362100 2	\$				
2	Electrical transmi	ssion, distribution, and control equipment	360101 0					
3	FLUID POWER PRODUCTS,	Fluid power pumps, motors, and hydraulic transmissions (complete assemblies)	359412 4					
4	HYDRAULIC AND	Fluid power cylinders and rotary actuators	359301 9		l			
5	PNEUMATIC	Fluid power filters	356921 7					
6		Fluid power valves	349271 7					
7		Fluid power hose or tube fittings and assemblies	349261 8					
8		Other hydraulic and pneumatic products	190089 3					
9	Speed changers,	gears, and industrial high-speed drives	356601 5					
10	Ball and roller be	arings (mounted or unmounted)	356200 6					
11		parts, except fluid power (hydraulic and pneumatic)	356101 6					
12	FABRICATED METAL PRODUCTS,	Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2					
13	EXCEPT FORGINGS	Metal tanks, heat exchangers, steam condensers, and other boiler products; fabricated steel plate and weldments	344301 7					
14	AND FLUID POWER (Hydraulic	Pipe, valves, and pipe fittings (except fluid power)	349402 8					
15	and pneumatic products)	Other fabricated metal products, except fluid power	340072 8					
16	Forgings		346000 3					
17	CASTINGS (Rough and semifinished)	Iron and steel	332001 7					
18		Nonferrous	336010 4					

<u> </u>	<u>rm MC-353</u>	8							Page 6
It	em 17. CONSI	UMPTION OF S	ELECTED MATERIALS DURING 1997 – Co	ntinue	d				
No.		Ma	terials, parts, and supplies		Censu mater code	ial	Consur purchase and of received establishm con Cost, inclu cost (fi	erials als ther f your elivery	
ine.					571		574	(E) Thou-	
	Shapes and	STEEL	(A)		(B)		Millions		Dollars
19	(Except		Bars, bar shapes, and plates		331007	7 5	\$	 	
20	forgings, and fabricated		Sheet and strip		331022	2 4		i I	
21	19 Forms (Except castings, forgings, and fabricated metal products) 22 23 24 Filter paper 25 Cost of all other Describe the print 26 TOTAL Sum of lin Item 18A. INST	NONFERROUS	All other		331034	4 9		 <u> </u> 	
22			Aluminum and aluminum-base alloy		33500	1 4		<u> </u>	<u> </u>
23			Other		33509	1 5		 	
24	Filter paper	Materials, parts, and supplies (A) Appears and materials and components, parts, containers, and supplies stofall other materials and components, parts, containers, and supplies conscribe the principal materials, etc., included in this value. TOTAL Sum of lines 1–25 should equal item 10, line a 18A. INSTRUCTIONS AND INQUIRY FOR COMPANIES ENGAGED IN PRODUCTS OF THEIR OWN MANUFACTURE It is preferable that you report the value of shipments for individual procedured for installation and erection. The installation and erection to reported on line 159, litem 18B. In order to evaluate the reporting for following questions: to the value of shipments figures for individual products include the cost of installation or erection of the product? "Yes," please estimate the total amount received for installation or erection to the employees of this manufacturing establishment install or rect the products of your company? "Yes," include these employees in liem 2 and their wages in liem 3A. ayments made by this establishment for any work done by others should be reported as a cost of contract work in liem 2 or their wages in liem 3A. ayments made by this establishment for any work done by others should be reported by the establishment that maintains the records or them.						<u> </u> 	
25			· · · · · · · · · · · · · · · · · · ·	nsumed	970099	9 8		 	
	Describe the principal materials, etc., included in this value.							 	
								i I	i I
26		nes 1–25 should e	qual item 10, line a				\$	 	
It	PRC It is prece repo	DDUCTS OF THE preferable that you ived for installation inted on line 159,	IR OWN MANUFACTURE but report the value of shipments for individuation and erection. The installation and erection.	l produc receipts	ts, excluding (if any) shou em, please ar	the a	amounts	N) OF	
1a	a. Do the value	of shipments f	gures for individual products include the	591	5512 Mai		appropriate i		
	cost of insta	llation or erecti	on of the product?	592		∐ Nc		t know	
k	Shapes and Forms (Except castings, forgings, and fabricated metal products) NONFERROUS All other NONFERROUS Aluminum and aluminum-base alloy Other TOTAL Sum of lines 1-25 should equal item 10, line a TOTAL Sum of lines 1-25 should equal item 10, line a TOTAL It is preferable that you report the value of shipments for individual procrecived for installation and erection. The installation and erection. The installation and erection following questions: Do the value of shipments figures for individual products of installation or erection of the product? If "Yes," please estimate the total amount received for installation or erection Do the employees of this manufacturing establishment install or erect the products of your company? If "Yes," include these employees in item 2 and their wages in item 3A. Does a distinct outside labor force (not attached to this manufacturing		593	1 Under \$5 2 \$50,000-					
2.	Do the emplo erect the pro If "Yes," include	oyees of this mand oducts of your c de these employe	anufacturing establishment install or ompany?es in item 2 and their wages in item 3A.	594	1 ☐ Yes 2	□No	o 3□Don	t know	
3.	plant) erect of If "Yes," do no Payments mad reported as a labor force sho	or install the pro of include this lab- de by this establis cost of contract w	oducts for your establishment? or force in item 2 or their wages in item 3A. shment for any work done by others should b ork in item 10e. The payroll of this outside	e 595	1 ☐ Yes 2	□No	o 3□Don	't know	
			CONTINUE WITH ITEM 18B ON PA	AGE 7					

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Census File Number

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997

INSTRUCTIONS

 General – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

 Valuation of Products – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

- 3. Contract Work Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.
- 4. Resales Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."
- Detailed Data Reported Elsewhere Items denoted by an asterisk (*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form.

NOTE: Only CIR totals are requested; do not duplicate detail reported on the CIR.

	and profits. NOTE: Only Cik totals are requested, do not adplicate detail reported on the CIR.								
				0	Product and oth	ts shipper	oed ints		
О.			Products and services	Census product	Value, f	o.b. pl			
Line No.			Troducts and Services	code 581	584	(E)	T		
Lin			(A)	(B)	Millions	Thou-sands	 Dollars		
	Filters for	NON-		(B)					
1	Fluid Power Systems	AEROSPACE- TYPE	Hydraulic (corresponds to the sum of items 3301–3309 as reported on CIR form MA35N, Fluid Power Products, for		_				
'	(Hydraulic		1997)	35694 00 9	\$	1			
2	and Pneumatic; see lines 37-41 for		Pneumatic (corresponds to the sum of items 3311 –3323 as reported on CIR form MA35N, Fluid Power Products, for 1997)	35695 00 6		 			
3	other fluid power products)	Aerospace-type, 3325 and 3327 a 1997)	hydraulic and pneumatic (corresponds to the sum of items s reported on CIR form MA35N, Fluid Power Products, for	35696 00 4		 			
	Filters	FILTER AND				 			
	and Strainers,	STRAINER ASSEMBLIES				I I			
4	Except for Fluid	(Containment or housing	For water	35693 04 3		<u> </u>			
	Power Systems	devices), WITH OR WITHOUT				 			
5	and Parts (See also	FILTER ELEMENT	For other fluids	35693 08 4		i i			
6	lines 9–27 for other	FILTER REPLACEMENT	Reusable (cleanable)	35693 11 8		i I			
	filtration and separation	ELEMENTS (Media)	Nonreusable, including disposable	33093 118		 			
7	products)	(Wedia)	(throwaway) litter cartridges	35693 12 6		İ			
8			sories, sold separately	35693 89 4		 			
9	Industrial air pollection of parti	ution control equip culate or gaseous	ment, including products made specifically for the emissions or other purification of outgoing air	35646 11 6		 			
10	Parts for industria	al air pollution con	trol equipment (for cleaning or purifying outgoing air)	35646 21 5		1			
11	Dust Collection,	Air washers, exce	ant narts	35645 31 6		1			
- 1	Air Purification	OTHER	pr paro	33043310		<u> </u>			
	Equipment, and Air	PRODUCTS, EXCEPT	Electrostatic precipitation equipment, except for use			I I			
12	Washers for Heating,	PARTS	in air pollution control (outgoing air purification) applications	35645 41 5		I I			
	Ventilating, and Air-					1			
	Conditioning Systems,		Air filters for air conditioners and furnesses at a of			I I			
13	Clean Room		Air filters for air-conditioners and furnaces, etc., of 2400 cubic feet per minute or less	35645 43 1		 			
	Applications, and Similar					 			
14	Functions for Cleaning		Other products	35645 46 4		 			
	Incoming Air					 			
15		Parts		35645 47 2		I I			
	FILTERS FOR INTERNAL					 			
16	COMBUSTION ENGINES	For motor vehicle	es es	37144 00 3		i i			
17		Fam. alla		05044.00.5		İ			
17		For other uses		35944 98 7	CONTINUI	: F ON F	PAGE 8		

Products and services (A) (A) (B) (B) (Census products and services (C) (A) (B) (B) (B) (B) (B) (B) (B	Ite	em 18B. PRODU	JCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - (Continued					
Products and services (A) (A) (B) (B) (B) (B) (B) (B)				Consus	Products shipped and other receipts				
(A) (B) Millions sands fail Swimming pool filters Air or gas liquelying machinory Parts for distilling, rectifying, fractionating, heat exchange, or air or gas liquelying machinory Parts for distilling, rectifying, fractionating, heat exchange, or air or gas liquelying growth for distilling, rectifying, fractionaling, heat exchange, or air or gas liquelying growth for distilling, rectifying, for chrimical frameholdsturing use; sow lines 19 and 108-110 OTHER FOR SEZARATING IDURIS FOR SEZARATING CLUDIOS, OR GASES SUMM and vapor separators, complete units SEZARATING Constitutes and separators complete units Constitutes and separators complete units Constitutes and separators complete units Constitutes and separators (except crosm, grain, and borry), complete units Constitutes and separators for separating solids, liquids, or gases, except parts for intrinsic and strainers and fluid power products Sewage Irreatment equipment Assembly machines Assembly machines Mixers for industrial robots, attachments, and parts Mixers for industrial processes, complete units (report parts on line 150) Mixers for industrial processes, complete units (report parts on line 150) Mixers for industrial processes, complete units freport parts on line 150) Automatic fire sprinklers, complete units freport parts on line 150) Mixers for industrial processes, complete units freport parts on line 150) Prosess, metal balling, complete units freport parts on line 150) Mixers for industrial processes, complete units freport parts on line 150) Mixers for industrial processes, complete units freport parts on line 150) Mixers for industrial processes, complete units freport parts on line 150) Prosess, metal balling, complete units freport parts on line 150) Mixers for industrial processes, complete units freport parts on line 150) Mixers for industrial processes, or part for mixers for parts on line 150) Mixers for industrial processes or part for mixers for parts on line 150) Mixers for industrial processes or part	No.		Products and services	product	/_\		plant		
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Air or gas liquefying machinery 23591 07 2			(A)	(B)	Millions				
Parts for distilling rectifying, fractionaling, heat exchange, or air or gas liquefying for complete units. OFFICE AND COMPLET FOR Section 10 of the complete units and systems (report parts on line 150) Section industrial robots, attachments, and parts Automatic fire sprinklers, complete units (report parts on line 150) Automatic fire sprinklers, complete units (report parts on line 150) Automatic fire sprinklers, complete units (report parts on line 150) Prossos, motal balling, complete units (report parts on line 150) Automatic fire sprinklers, complete units (report parts on line 150) Prossos, motal balling, complete units (report parts on line 150) Automatic fire sprinklers, complete units (report parts on line 150) Prossos, motal balling, complete units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Automatic fire sprinklers, complete units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Complete units (report parts on line 150) Complete units (report parts on line 150) Complete units (report parts on line 150) Complete units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Complete units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) For line 150, and part by except automatic units (report parts on line 150) Complete units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Complete units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Complete units (report parts on line 150) Screwageks, except automatic units (report parts on line 150) Complete units (report parts on line 150) Screwageks,	18	Swimming pool	filters	35892 95 9	\$	 			
achinicity of drysts for chemical manufacturing user see lines 19 and 108–110 THER PRO- THE PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THE PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THER PRO- THE PRO- THER PRO- THE PRO- THER PRO- THE	19	Air or gas liquefy	ring machinery	35591 07 2		 	 		
DUCTS FOR SEPARATING Sea separating equipment, complete units 35699 03.2	20	machinery, or d for complete un	ryers (for chemical manufacturing use; see lines 19 and 108–110	35591 13 0		 			
Screwjacks, except units and systems (report parts on line 150) 35699 27 1 Automatic fire sprinkters, complete units (report parts on line 150) 3699 27 1 Automatic fire sprinkters, complete units (report parts on line 150) 3699 27 1 Automatic fire sprinkters, complete units (report parts on line 150) 3699 37 1 3699 37 1 3699 37 1 37 2 38 2 38 2 38 3699 37 2 38 2 38 3699 38 3 38 3699 39 3 38 3699 39 3 38 3699 39 3 38 3699 39 3 38 3699 39 3 38 3699 39 3 39 3699 39 3 30 Mixers for industrial processes, complete units (report parts on line 150) 30 Mixers for industrial processes, complete units (report parts on line 150) 30 Mixers for industrial processes, complete units (report parts on line 150) 31 Automatic fire sprinkters, complete units (report parts on line 150) 32 Presses, motal baling, complete units (report parts on line 150) 33 699 37 1 34 Screwjacks, except automotive: complete units (report parts on line 150) 35 699 31 3 36 30 68 36 699 37 1 37 68 36 36 699 37 1 38 690 38 3 39 70 30 7 30 690 39 3 30 690 30 3 30 690 30 3 30	21	DUCTS FOR	Gas separating equipment, complete units	35699 03 2		 			
Sifting and screening machines, complete units 35699 15 6 Centrifugals and separators (except cream, grain, and berry), complete units Other products, except filters and strainers, complete units - Specify kind 25 26 Parts for products for separating solids, liquids, or gases, except parts for filters and strainers and fluid power products as 35699 46 1 27 Sewage treatment equipment 35699 09 9 28 Assembly machines 35492 00 8 29 Industrial robots, attachments, and parts 35699 09 9 30 Mixers for industrial processes, complete units (report parts on line 150) 35699 11 5 31 Automatic fire sprinklers, complete units (report parts on line 150) 35699 23 0 32 Presses, metal balling, complete units (report parts on line 150) 35699 17 2 33 Hydraulic jacks, complete units (report parts on line 150) 35699 27 1 34 Screwjacks, except automotive; complete units (report parts on line 150) 35699 27 1 35 Gas generating equipment, complete units (report parts on line 150) 35699 31 3 36 Gas generating equipment, complete units (report parts on line 150) 35699 01 6 LUBRICATING SYSTEMS (AND SYSTEMS) 10 10 10 10 10 10 10 10 10 10 10 10 10	22	SOLIDS, LIQUIDS,	Steam and vapor separators, complete units	35699 05 7		 			
complete units — Specify kind 25 26 27 28 28 29 29 20 20 20 20 20 21 22 23 24 25 26 27 28 28 29 29 20 20 20 20 20 20 20 20	23	OK OASES	Sifting and screening machines, complete units	35699 15 6		i I I			
Other products, except filters and strainers, complete units – Specify-kind 25 26 27 28 28 28 29 29 20 20 20 20 20 20 20 20	24		Centrifugals and separators (except cream, grain, and berry), complete units	35699 21 4		1	_		
Parts for products for separating solids, liquids, or gases, except parts for filters and strainers and fluid power products Sewage treatment equipment Sewage treatment equipment Sewage treatment equipment Industrial robots, attachments, and parts Industrial robots, attachments, and parts Mixers for industrial processes, complete units (report parts on line 150) Automatic fire sprinklers, complete units and systems (report parts on line 150) Presses, metal balling, complete units (report parts on line 150) Presses, metal balling, complete units (report parts on line 150) Screwjacks, except automotive; complete units (report parts on line 150) Screwjacks, except automotive; complete units (report parts on line 150) Screwjacks, except automotive; complete units (report parts on line 150) Screwjacks, except automotive; complete units (report parts on line 150) LUBRICATING SINDUSTRIAL, CONTRIBUTED AND MARCH CONTRIBUTED AND			•			1			
Sewage treatment equipment 35892 0.0 9	25			35699 46 1					
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30 Mixers for industrial processes, complete units (report parts on line 150) 31 Automatic fire sprinklers, complete units and systems (report parts on line 150) 32 Presses, metal baling, complete units (report parts on line 150) 33 Hydraulic jacks, complete units (report parts on line 150) 34 Screwjacks, except automotive; complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 36 LUBRICATING SYSTEMS, INDISTRIAL, DOTATION (Complete units (report parts on line 150) 36 Gas generating equipment, complete units (report parts on line 150) 36 Gas generating equipment, complete units (report parts on line 150) 36 Gas generating equipment, complete units (report parts on line 150) 37 Gas generating equipment, complete units (report parts on line 150) 38 Gas generating equipment, complete units (report parts on line 150) 39 Gas generating equipment, complete units (report parts on line 150) 30 Gas generating equipment, complete units (report parts on line 150) 30 Gas generating equipment, complete units (report parts on line 150) 30 Gas generating equipment, complete units (report parts on line 150) 30 Gas generating equipment, complete units (report parts on line 150) 31 Gas generating equipment, complete units (report parts on line 150) 32 Gas generating equipment, complete units (report parts on line 150) 33 Gas generating equipment, complete units (report parts on line 150) 34 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment generator (report farts and parts on line 150) 36 Gas generating equipment generator (report farts and parts on line 150) 37 Gas generating equipment generator (report farts and parts on line 150) 38 Gas generatin	28	Assembly mach	ines	35492 00 8		 			
31 Automatic fire sprinklers, complete units and systems (report parts on line 150) 32 Presses, metal baling, complete units (report parts on line 150) 33 Hydraulic jacks, complete units (report parts on line 150) 34 Screwjacks, except automotive; complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 36 AUTOMATIC (COMPLET (COMPLET) (29	Industrial robots	s, attachments, and parts	35699 09 9		 	 		
32 Presses, metal balling, complete units (report parts on line 150) 33 Hydraulic jacks, complete units (report parts on line 150) 34 Screwjacks, except automotive; complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 LUBRICATING SYSTEMS, INDUSTRIAL Of the than for pneumatic systems (complete units; report parts on line 150) 36 JAUTOMATIC (Complete units sold separately) 47 Compressed air and gas dryers (refrigerant, desiccant and other; corresponds to the sum of items 3341–3346 as reported on CIR form MA35N, Fluid Power Products, for 1997) 58 Fluid power valves and hose fittings and assemblies (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997; see lines 51–53 for other valves) 40 Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) 51 Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) 52 Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as 1990 00 9 53 Fluid power pumps, motors, and hydrostatic transmission components (corresponds to the sum of items 5504–5597 as reported on CIR form MA35N, Fluid Power Products, for 1997) 53 Steam, gas, and hydraulic turbines, and turbine generator set unitis: except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) 54 Gasoline engines (and parts) for automobiles, highway trucks, and buses 57 Jayou 0 8 58 Jayou 0 9 59 Jayou 0 9 70 Jayou 0 9 71 Jayou 0 9 72 Jayou 0 9 73 Jayou 0 9 74 Jayou 0 9 75 Jayou 0 9 76 Jayou 0 9 77 Jayou 0 9 78 Jayou 0 9 78 Jayou 0 9 78 Jayou 0 9 78 Jayou 0 9 78 Jayou 0 9 78 Jayou 0 9 78 Jayou 0 9 78 Jayou 0 9 78 Jayo	30	Mixers for indus	strial processes, complete units (report parts on line 150)	35699 11 5		 			
33 Hydraulic jacks, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 36 June 10 June 10 June 10 June 10 June 11 Jun	31	Automatic fire s	prinklers, complete units and systems (report parts on line 150)	35699 23 0		 			
34 Screwjacks, except automotive; complete units (report parts on line 150) 35 Gas generating equipment, complete units (report parts on line 150) 35699 01 6 LUBRICATING SYSTEMS, INDUSTRIAL, CENTRALIZED AND AUTOMATIC (Complete units sold separately) For pneumatic systems (complete units; report parts on line 150) Compressed air and gas dryers (refrigerant, desiccant and other; corresponds to the sum of items 3341–3346 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power valves and hose fittings and assemblies (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997; see lines 51–53 for other valves) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units; except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) Steam gas, and hydraulic turbines, and engine intake and exhaust valves 37240 00 9 45 Gasoline engines (and parts) for automobiles, highway trucks, and buses 37142 00 7 Other internal combustion engines and parts (report electric motors and generators on lines 151–156)	32	Presses, metal b	paling, complete units (report parts on line 150)	35699 17 2		i !			
35 Gas generating equipment, complete units (report parts on line 150) LUBRICATING SYSTEMS. INDUSTRIAL CENTRALIZED AND AUTOMATIC (Complete units sold separately) Complete units sold separately) Compressed air and gas dryers (refrigerant, desiccant and other; corresponds to the sum of items 3341–3346 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power valves and hose fittings and assemblies (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997; see lines 51–53 for other valves) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units: except aircraft (report those on line 44), agricultural (report tarm windfull heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) 3590 00 8 Aircraft engines and aircraft engine parts 40 Other internal combustion engines and parts (report electric motors and generators on lines 151–156)	33	Hydraulic jacks,	complete units (report parts on line 150)	35699 27 1		 			
LUBRICATING SYSTEMS, INDUSTRIAL, CENTRALIZED AND AUTOMATIC (Complete units sold separately) Compressed air and gas dryers (refrigerant, desiccant and other; corresponds to the sum of items 3341–3346 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power valves and hose fittings and assemblies (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997; see lines 51–53 for other valves) Fluid power cylinders and actuators (corresponds to the sum of items 1670–1670 form MA35N, Fluid Power Products, for 1997) Fluid power cylinders and actuators (corresponds to the sum of items 1701–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997; see lines 51–53 for other valves) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power pumps, motors, and hydrostatic transmission components (corresponds to the sum of items 5504–5597 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units; except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) 43 Carburetors, pistons, piston rings, and engine intake and exhaust valves 44 Aircraft engines and aircraft engine parts 45 Gasoline engines (and parts) for automobiles, highway trucks, and buses 37142 00 7 Other internal combustion engines and parts (report electric motors and generators on lines 151–156)	34	Screwjacks, exc	ept automotive; complete units (report parts on line 150)	35699 31 3		 	 		
SYSTEMS, INDUSTRIAL, CENTRALIZED AND AUTOMATIC (Complete units sold separately) Compressed air and gas dryers (refrigerant, desiccant and other; corresponds to the sum of items 3341–3346 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power valves and hose fittings and assemblies (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power valves and actuators (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power cylinders and actuators (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units; except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) 37240 00 9 43 Carburetors, pistons, piston rings, and engine intake and exhaust valves 37240 00 9 45 Gasoline engines (and parts) for automobiles, highway trucks, and buses 37142 00 7 Other internal combustion engines and parts (report electric motors and generators on line 151–156)	35	out gonerumg	equipment, complete units (report parts on line 150)	35699 01 6		 			
(Complete units sold separately) For pneumatic systems (corresponds to item 3347 as reported on CIR form MA35N, Fluid Power Products, for 1997) Compressed air and gas dryers (refrigerant, desiccant and other; corresponds to the sum of items 3341–3346 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power valves and hose fittings and assemblies (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997; see lines 51–53 for other valves) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydrastatic transmission components (corresponds to the sum of items 5504–5597 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units; except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) 35110 00 6 43 Carburetors, pistons, piston rings, and engine intake and exhaust valves 35920 00 8 44 Aircraft engines and aircraft engine parts 37240 00 9 Aircraft engines (and parts) for automobiles, highway trucks, and buses 37142 00 7 Other internal combustion engines and parts (report electric motors and generators on lines 151–156)	36	SYSTEMS, INDUSTRIAL, CENTRALIZED AND		35699 08 1		 			
the sum of items 3341–3346 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power valves and hose fittings and assemblies (corresponds to the sum of items 1201–2277 as reported on CIR form MA35N, Fluid Power Products, for 1997; see lines 51–53 for other valves) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CIR form MA35N, Fluid Power Products, for 1997) Fluid power pumps, motors, and hydrostatic transmission components (corresponds to the sum of items 5504–5597 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units; except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) Carburetors, pistons, piston rings, and engine intake and exhaust valves 43 Carburetors, pistons, piston rings, and engine intake and exhaust valves 44 Aircraft engines and aircraft engine parts Gasoline engines (and parts) for automobiles, highway trucks, and buses Other internal combustion engines and parts (report electric motors and generators on lines 151–156) 35190 00 8	37	(Complete units sold		35699 07 3		 			
items 1201–2277 as reported on CÎR form MA35N, Fluid Power Products, for 1997; see lines 51–53 for other valves) Fluid power cylinders and actuators (corresponds to the sum of items 4501–4893 as reported on CÎR form MA35N, Fluid Power Products, for 1997) Fluid power pumps, motors, and hydrostatic transmission components (corresponds to the sum of items 5504–5597 as reported on CÎR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units; except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) Carburetors, pistons, piston rings, and engine intake and exhaust valves 43 Carburetors, pistons, piston rings, and engine intake and exhaust valves 44 Aircraft engines and aircraft engine parts 37240 00 9 Other internal combustion engines and parts (report electric motors and generators on lines 151–156) Other internal combustion engines and parts (report electric motors and generators on lines 151–156)	38	the sum of items	s 3341–3346 as reported on CIR form MA35N, Fluid Power	35699 45 3					
Fluid power pumps, motors, and hydrostatic transmission components (corresponds to the sum of items 5504–5597 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units; except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) Carburetors, pistons, piston rings, and engine intake and exhaust valves 42 Aircraft engines and aircraft engine parts 35920 00 8 43 Gasoline engines (and parts) for automobiles, highway trucks, and buses Other internal combustion engines and parts (report electric motors and generators on lines 151–156)	39	items 1201–2277	as reported on CIR form MA35N, Fluid Power Products, for 1997;	34920 00 9		 			
sum of items 5504–5597 as reported on CIR form MA35N, Fluid Power Products, for 1997) Steam, gas, and hydraulic turbines, and turbine generator set units; except aircraft (report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) 43 Carburetors, pistons, piston rings, and engine intake and exhaust valves 44 Aircraft engines and aircraft engine parts 45 Gasoline engines (and parts) for automobiles, highway trucks, and buses 37142 00 7 Other internal combustion engines and parts (report electric motors and generators on lines 151–156)	40	Fluid power cyli reported on CIR	nders and actuators (corresponds to the sum of items 4501–4893 as form MA35N, Fluid Power Products, for 1997)	35930 00 7		i 			
(report those on line 44), agricultural (report farm windmill heads and towers for pumping water on line 59), and electrical (report these on lines 151–156) 43 Carburetors, pistons, piston rings, and engine intake and exhaust valves 44 Aircraft engines and aircraft engine parts 45 Gasoline engines (and parts) for automobiles, highway trucks, and buses 37142 00 7 Other internal combustion engines and parts (report electric motors and generators on lines 151–156) 35190 00 8	41	Fluid power pum sum of items 550	ps, motors, and hydrostatic transmission components (corresponds to the 4–5597 as reported on CIR form MA35N, Fluid Power Products, for 1997)	35940 00 6		 			
44 Aircraft engines and aircraft engine parts 45 Gasoline engines (and parts) for automobiles, highway trucks, and buses 37240 00 9 46 Other internal combustion engines and parts (report electric motors and generators on lines 151–156) 37240 00 9 37142 00 7	42	(report those on	line 44), agricultural (report farm windmill heads and towers for	35110 00 6		 			
45 Gasoline engines (and parts) for automobiles, highway trucks, and buses Other internal combustion engines and parts (report electric motors and generators on lines 151–156) 35190 00 8	43	Carburetors, pis	tons, piston rings, and engine intake and exhaust valves	35920 00 8		 			
Other internal combustion engines and parts (report electric motors and generators on lines 151–156) 35190 00 8	44	Aircraft engines	and aircraft engine parts	37240 00 9		 			
46 lines 151–156) 35190 00 8	45	Gasoline engine	s (and parts) for automobiles, highway trucks, and buses	37142 00 7		 			
47 Gasoline service station pumps, including lubricating pumps and grease guns 35860 00 6	46		ombustion engines and parts (report electric motors and generators on	35190 00 8					
	47	Gasoline service	e station pumps, including lubricating pumps and grease guns	35860 00 6		 	l		

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued

Ite	em 188. PRODU	UCTS AND SER	VICES OF THIS ESTABLISHMENT DURING 1997 - (Continued			
				Census	Products other	shipped receipt	
No.			Products and services	product	Value, f		ant
N			Trouble and convices	code ₅₈₁	584	(E)	T .
Line			(A)			Thou-sands	l Dollars
			(A)	(B)	I I I I I I I I I I I I I I I I I I I	l	Donars
	Vacuum pumps	(except laborato	ry: report those on lines 151–156), air and gas n; report those on line 91), and parts; and			1	
	industrial sprayi	ing and dusting e	equipment (except for agricultural use; report			 	
48	similar agricultu	ıral equipment oı	n line 59) and parts	35630 00 3	\$	<u> </u>	l
49	Other pumps ar	nd pumping equi	oment (except motor vehicle; report those on line 87)	35610 00 5		I	
	Industrial and co	ommercial fans a	nd blowers (report attic fans here, but report other			!	
50	household, none and parts	commercial kitch	en, and small portable fans on lines 151–156),	35640 00 2		 	
30	and parts			33040 00 2			
51			wer and plumbing and heating (see lines 39 and 53)	34910 00 0		İ	
	Fabricated pipe	and pipe fittings	made from purchased pipe – Specify kind of metal				
52				34980 00 3		 	
	Valves and nine	fittings not else	where classified (except plastics pipe fittings,			 	
EO	plumbing fixture	e fittings and trin	n, and garden hose fittings and couplings; report	24040.00.7		 	
53	mose products	on lines 151–156)		34940 00 7			
54	Oil and gas field	d machinery and	35330 00 0		1		
55	Mining machine	ary (except oil an	35320 00 1		 	 	
33	willing machine	ory (except on an	d gas field), complete units	33320 00 1		<u> </u>	
56	Parts and attach	ments for mining	g machinery, sold separately (including mining drill bits)	35329 00 2		1	
	Construction ma	achinery and equ	ipment, complete units, including crane and excavator nounting on trucks, tractors, and other prime movers –			1	
	Specify kind	a machinery for i	mounting on tracks, tractors, and other prime movers –			 	
57			35310 00 2		l I		
58	Parts for constru	uction machinery	, sold separately	35319 00 3		i I	
	Farm (and comr	mercial turf) mac	hinery and equipment (corresponds to the sum of			!	
59	items 6101–8143 and Lawn and G	3, except "Totals, Garden Equipmer	" as reported on CIR form MA35A, Farm Machinery	35230 00 2		1	
			ent (corresponds to the sum of items 8202–8335, except			1	
60	"Totals," as repo	orted on CIR form	MA35A, Farm Machinery and Lawn and Garden	25240.00.1		 	
60	Equipment, for		s, and monorail systems (except aircraft loading	35240 00 1		<u> </u> 	
61	hoists; report th	ose on line 63 ar	nd their parts sold separately on line 64)	35360 00 7		l -	
62	Elevator and mo	ovifng stairways	(except farm and conveying equipment; see lines 59	35340 00 3			
02		tractors mobile	e straddle carriers and cranes, and automatic	33340 00 3			
	stacking machin	nes, for materials	-handling use in and around plants, depots, docks,	25270.00.0		1 	
63	airports, and ter	minals (complete	e units)	35373 00 0		<u> </u> 	
	Parts for industr	rial trucks, tractor	rs, mobile straddle carriers and cranes, and r materials-handling use in and around plants,			[[
64	depots, docks, a	irports, and term	inals	35374 00 8		1	
	Unit Handling Conveyors	COMPLETE UNITS	Powered (belt and roller), light- to medium-duty – Specify whether belt or roller				
	and Conveying					1	
65	Systems (Except			35353 00 2		 	
66	hoists and		Other	35353 00 2		 	
	equipment)					 	
67	Dulle Masser int		nts, and accessories	35354 00 0		<u> </u>	
68	Bulk Material Handling	COMPLETE UNITS	Belt, conveyors and systems	35355 05 6			
	Conveyors and		Other, including pneumatic, vibrating, screw, portable,			1	
	Conveying Systems		apron, en masse, flight, and drag conveyors; bucket elevators; bucket wheel reclaimers, vibrating feeders,			[[
	(Éxcept		bins, apron feeders, gates, and similar unloading and reclaiming systems; traveling stackers, trippers,			l I	
	hoists and farm		centrifugal throwers, and similar loading and storing systems; etc. – <i>Specify kind</i>			1	
	equipment)		Systems, etc. – Specify Killu			1 	
69				35355 00 7		[[
		Parts - Specify I	kind if for belt conveyors			† 	
70				35356 00 5		l I	
70							07.44

Ite	Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued										
		Census	Products shipped and other receipts								
No.	Products and services	product		other receipts Value, f.o.b. plant (E)							
Line		581	584	Thou-							
	(A)	(B)	Millions	sands	Dollars						
71	Packaging machinery, including wrapping and bottling machinery; complete units	35651 00 9	\$								
72	Parts for packaging machinery	35652 00 7		 							
73		35460 00 5									
74	Saw blades and handsaws (except power-driven sawing machines for woodworking use; report those on line 121)	34250 00 1									
75	Other non-power-driven handtools and edge tools (except metal cutting dies; report those on line 79)	34230 00 3		 							
76	Metal cutting type machine tools (except handtools and electric gas welding and soldering equipment; report handtools on lines 73 through 75, handheld soldering irons on line 75, and other electric and gas welding and soldering equipment on line 83)	35410 00 0									
77	Metal forming type machine tools (except handtools, and electric and gas welding and soldering equipment; report handtools on lines 73 through 75, other electric and gas welding and soldering equipment on line 83, and rolling mill equipment on line 82)	35420 00 9									
78	Cutting tools, machine tool accessories, and machinists' precision measuring tools (except handtools; see lines 73 through 75)	35450 00 6									
79	Special dies and tools, die sets, jigs, and fixtures (report cutting dies for non-metals on line 75)	35441 00 5									
80	Industrial molds and mold boxes (except for heavy steel ingots; report those on line 125)	35442 00 3		 							
81	Industrial patterns	35430 00 8									
82	Rolling mill machinery and equipment	35470 00 4		 							
83	Electric and gas welding and soldering equipment (except handheld soldering irons; report those on line 75; report electron beam, ultrasonic, and laser welding equipment on lines 151–156)	35480 00 3									
84	Metal degreasing machinery and parts	35598 74 7									
85	Wire fabricating machines (weaving, drawing, coil conversion or straightening, etc., and drawbenches) and other metalworking machinery, not elsewhere classified (see line 123 for foundry equipment)	35495 00 1									
86	Antifriction bearings (bail and roller, mounted or unmounted) and parts (corresponds to the sum of all items, except totals, as reported on CIR form MA35Q, Antifriction Bearings, for 1997)	35620 00 4									
87	Power transmission equipment, pumps, and other parts, not elsewhere classified, for automobiles, highway trucks, and buses (see line 16 for filters)	37140 00 1									
88	Power transmission equipment for aircraft, and other parts, not elsewhere classified, for aircraft	37280 00 5		 							
89	Speed changers, industrial high-speed drives, gears, and parts, except automotive and aircraft (see lines 87 and 88)	35660 00 0									
90	Other mechanical power transmission equipment, not elsewhere classified, including plain bearings and bushings	35680 00 8									
-91	Air-conditioning, warm air heating, and commercial and industrial refrigeration equipment (report all air-conditioners here, but report refrigerators for household or farm use on lines 151–156)	35850 00 7									
92	Commercial cooking and food-warming equipment (report products for household use on lines 151–156)	35891 00 1									
	Commercial laundry, dry-cleaning, and pressing machinery (report products for household use on lines 151–156)	35820 00 0									
	Commercial and industrial vacuum cleaners, parts, and attachments (report products for household use on lines 151–156)	35893 00 7		<u> </u> 							
	Automatic vending machines and coin-operated mechanisms for them; and parts	35810 00 1		<u> </u>							
96	Automotive maintenance equipment, except handtools (see lines 73 and 75)	35597 00 4		 							
97	Industrial process furnaces, ovens, and kilns; and industrial electric heating equipment and related devices, including furnaces and ovens for semiconductor manufacturing (report bakery ovens on line 117; cement, wood, and chemical kilns on line 124; cremating ovens on line 149; and laboratory furnaces and ovens on lines 151–158); and parts	35670 00 9									
98	Scales and balances (weighing and force-measuring machines of all types), including parts; except laboratory (report scientific apparatus for laboratory work on lines 151–156)	35960 00 4									
99	Test equipment for testing motors and electrical, radio, communications, printed circuit board, and semiconductor circuitry (corresponds to the sum of items 5701–5849 as reported on CIR form MA38B, Selected Instruments and Related Products, for 1997); except portable instrument transformers; report those on lines 151–156)	38252 00 3									
	CONTINUE WITH ITEM 18B ON PAGE 11										

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Census File Number

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

Ite	m 18B. PRODL	JCTS AND SER	VICES OF THIS ESTABLISHMENT DURING 1997 -	Continued			
				0	Products	shippe receipt	
No.			Products and services	Census product	Value, f		
Line N				code 581		(E)	
			(A)	(B)	584 Millions	Thou- sands	। । Dollars
	Automatic contro	ols for monitorin	ng residential and commercial environments and			i I	
100	appliances (corre MA38B, Selected	esponds to the s d Instructments a	um of items 4570-4609 as reported on CIR form and Related Products, for 1997)	38220 00 0	\$	i I	
101	Industrial instrume	ents for controlling	process variables (corresponds to the sum of items 4612-4897 ected Instruments and Related Products, for 1997)	38230 00 9		I I	
101			c testing, inspecting, and measuring equipment	30230 00 7		 	
102	(corresponds to Instruments and	the sum of items	s 6201–6218 as reported on CIR form MA38B, Selected	38292 00 9		I I	
.02			ols (corresponds to the sum of items 6101–6355 as	00272 00 7		 	
103	reported on CIR Industrial Contro	form MA36A, Sv	vitchgear, Switchboard Apparatus, Relays, and	36252 00 5		 	
	Other industrial	controls (corresp	oonds to the sum of items 5400–5496, 6402–6509, 6703,			!	
104	and 6705, as rep Relays, and Indu	orted on CIR for strial Controls, f	m MA36A, Switchgear, Switchboard Apparatus, or 1997)	36250 00 9		 	
105	Electrical and ele	ectronic teaching	machines, teaching aids, trainers, and simulators,	36991 00 8			
103	Commercial- and	d institutional-typ	pe electric lighting fixtures, including parts and	30771 00 0		<u> </u> 	
	outdoor-, spotlig	ıht-type, and por	vare, and industrial-, residential-, vehicular-, table fixtures; report such products on lines				
106	151–156) (corres MA36L, Electric	ponas to the sur Lighting Fixtures	m of item codes 2101–2298, as reported on CIR form s, for 1997)	36462 00 0		İ	
107	Other machinery	v. not elsewhere	classified, for service industry use	35892 00 9			
	MACHINERY	Distilling, rectif	ying, or fractionating (complete			 	
108	(Not elsewhere classified)	units; report pa	urts on line 20) units (complete units; report parts	35591 01 5		<u> </u>	
109	FOR MANU- FACTURING CHEMICALS	on line 20)	units (complete units, report parts	35591 03 1		 	
110	/l.= = l =!!.= =:	Dryers (comple	ete units; report parts on line 20)	35591 05 6		I I	
	ceuticals, soaps, and	uticals, . Mixing, kneading, crushing, grinding, sifting, homogenizing.			1		
111	paints	emulsifying, or line 113)	stirring machines (complete units; report parts on	35591 09 8		 	
112		Other (except a	ir or gas liquefying machinery; see lines 19 and 20), (report parts on line 113)	35591 11 4		 	
		·	·			<u> </u>	
113	OTHER	Parts for produ	cts listed on lines 111 and 112	35591 15 5		<u> </u>	
114	MACHINERY (And parts),	Semiconductor	manufacturing	35596 00 6		i	i
115	USED FOR SPECIFIC	Printing trades	(except textile printing; see line 118)	35550 00 3		 	
116	INDUSTRIAL PURPOSES	Paner industrie	s (except printing; see line 115)	35540 00 4		I I	
	(By industry in which products	Food products	(except packaging and refrigeration; see lines 65–72	33310 00 1		1	
117	are used)	and 91–92)	t cowing machines, report industrial cowing machines	35560 00 2		1	
118		on line 124 and	t sewing machines; report industrial sewing machines I household sewing machines on lines 151-156)	35520 00 6		1 1	
119		Plastics working	g (except patterns and molds; see lines 80 and 81)	35593 00 3		 	
120			g (excluding tire molds)	35594 00 1		l I	
		Woodworking ((except saws and handtools included on lines			 	
121		73 through 75)		35530 00 5		<u> </u>	
122		Printed circuit k	poard manufacturing (except testing; see line 99)	35595 00 8		 	
123		Foundries (exce	ept patterns and molds; see lines 80 and 81)	35592 00 5		 	
			g glass making, petroleum refining, desalination,			1	
124		metal finishing concrete produ	, sewing, stone or ceramics (or clay, etc.) working, cts forming, wood kilning, battery making, wire or g, cotton ginning, etc., for SPECIFIC industry use	35598 00 2		 	
125	Castings	FERROUS	Gray and ductile iron castings	33210 00 6		 	
				33220 00 5		1	
126			Malleable iron castings	33220 00 3		 	
127	(Continued -		Steel investment castings	33240 00 3		<u> </u> 	
128	(Continued on next page)		Other	33250 00 2		 	
					CONTINUE	ON PA	GF 12

	111 1010-3330						age 12
Ite	m 18B. PRODI	JCTS AND SER	VICES OF THIS ESTABLISHMENT DURING 1997 -	Continued			
				Census		receipt	ts
No.			Products and services	product code	Value, f	.o.b. pl (E)	lant
Line No.				581	584	Thou-	I I
	Continue	NONEEDBOUG	(A)	(B)	Millions	sands	Dollars
129	Castings – Continued	NONFERROUS	Aluminum (and aluminum-base alloy) die-castings	33630 00 5	\$		
130			Other nonferrous die-castings (including copper)	33640 00 4		i I	
131			Other aluminum (and aluminum-base alloy) castings	33650 00 3		 	
132			Other copper (and copper-base alloy) castings	33660 00 2		 	
133			Other nonferrous castings	33690 00 9		i I	
134	Metal heat treating	ng for the trade	33980 00 4		! ! !		
135	Sheet metal work	(34440 00 8		 	<u>i</u>
136	Fabricated plate	work and weldme	nts	34430 00 9		i I I	
137	Welding repair sh	nop services		97692 00 8		 	İ
138	Cold-heading (or	warm- or hot-hea	ding) products, including metal fasteners	34520 00 7		I I	
139	Precision turned	products (made o	n screw machines, turning centers, CNC equipment, etc.)	34510 00 8			
140	Automotive stam	pings		34650 00 2		! 	
141	Metal crowns and	d closures		34660 00 1		 	!
142	Other metal stam	pings		34690 00 8		 	
143	Iron and steel for	gings		34620 00 5		 	
144	Nonferrous forgir	ngs		34630 00 4		 	
	Wire products, no	ot elsewhere class	ified, made from purchased wire – Specify kind of product				
145				34960 00 5		 	
	Electroplating, pla	ating, polishing, ar	nodizing, and coloring of metals, for the trade	34710 00 4		! 	
147	Galvanizing, lacq	uering, enameling	, and allied services to metals, for the trade	34790 00 6		 	
148	Receipts for mac	hine shon ioh wor	ς and job order repair	35995 00 0		 	
140	•		not elsewhere classified, complete units – Specify kind	33333 00 0		<u> </u>	
149				35699 48 7		! 	
	Parts and attachr	ments for compres	sed air and gas dryers, centralized and automatic strial mixers, automatic fire sprinklers, metal baling			[[
150	presses, jacks, q	as generating equ Isewhere classifie	ipment, and other general industrial machinery and	35699 52 9		1 	
	ALL OTHER PRODUCTS	Describe and re	port separately each product with a sales value of which cannot be assigned to one of the lines above.			l I	
151	MADE IN THIS ESTABLISH- MENT			18		 	
152	IVILINI			26		 	
153				34			
154				42		<u> </u> 	
155				59		 	
156				67		[[
157	CONTRACT WORK		k done for others on their own materials	93000 00 8		! 	
			products worked on and kind of work.			 	
						İ]]

Form MC-3538 Page 13 Census File Number If not shown, please enter your 11-digit Census File Number from the address label on page 1 Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued Products shipped and other receipts Census product Value, f.o.b. plant 9 Products and services code (E) Line 581 584 Thousands Dollars (A)(B) Millions Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 10, line b. RESALES 158 99989 00 6 \$ MISCELLA-NEOUS Receipts or installation (for construction) of products of this establishment 159 99980 31 0 RECEIPTS Other miscellaneous receipts (including receipts for sale of scrap and 160 refuse, repair work, etc.) 99980 98 9 TOTAL value of shipments and other receipts 161 Sum of lines 1-160, column (E) 77000 00 8 \$ SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING Item 19. OTHER PRODUCTS MADE IN THIS ESTABLISHMENT **INSTRUCTIONS** Report below the quantity of each listed item produced in this establishment and used in 3. Materials used to produce the items specified below should be reported in item 17. manufacturing other products made in this 4. Quantities produced for sale as such and not for establishment. incorporation in other products should be reported in item 18B. 2. Purchases or receipts of the items specified below 5. Report quantities in the unit of measure specified in should be reported only in item 17. column (D). Quantities produced Was this operation performed at this in this Unit of establishment Census measure Item establishment and used in code manufacturing other products during 1997? quantities made in this Line establishment 592 (C) (A) 591 (B) (E) (D) 593 Yes No Short 1 🔲 2 1 1001 7 Ferrous foundries tons **NONFERROUS** FOUNDRIES 2 1 🗆 Aluminum 1002 5 (Except die-casting) 2 1 🔲 3 Copper 1003 3 Thousand 1 🗌 1004 1 2 pounds Zinc 1 🔲 2 Other 1005 8 1 🔲 2 Nonferrous die-casting foundries 1006 6 Precision turned products (on screw machines, turning centers, and CNC equipment) 1 🔲 2 1007 4 Items 20 and 21 - Not applicable to this report REMARKS - Please use this space for any explanations that may be essential in understanding your reported data. Item 22. CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions. Name of person to contact regarding this report (Print or type) Extension Area code Telephone 667 1 2 Name of company Address (Number and street, city, State, ZIP Code)

Day

Year

Title

TO: Month

2

FROM: Month

666 1

Signature of authorized person

Period covered

Dav

Year

Date